

List of type specimens of some species, varieties, and formas deposited in Blatter herbarium, Bombay^{1,2}

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The "International Code of Botanical Nomenclature" as we know it today is derived mainly from the 'Laws of Botanical Nomenclature' proposed by Alphonse de Candolle and adopted at the International Botanical Congress of Paris, August, 1887.

The present day code (Ed. 1972) is mainly divided into two divisions, namely I—Principles and II—Rules and Recommendations. The Principles form the basis of the system of Botanical Nomenclature while rules set out in Articles and Recommendations are formulated with a view to upholding the Principles.

One of the Fundamental Principles of this code (Principle—II) is "The application of names of taxonomic groups is determined by means of types."

This "type" concept in the application of names is derived from the so-called 'American Code' formulated by American Botanists. Rev. Fr. H. Santapau (*Science & Culture*, 31: 456-467, 1955) has given a complete history of the development of the type concept in the International Code of Botanical Nomenclature from the time of its entry in the form of

a recommendation adopted at Brussels Congress (1910) to the current code which validates the publications of new taxa only when the nomenclatural types are clearly indicated.

The Blatter Herbarium, which was renamed in 1941 after its founder Rev. Fr. E. Blatter, houses some important collections which form the basis of some of our Indian floristic works. A very good account of this herbarium is given by Rev. Fr. H. Santapau, in the Centenary Souvenir of Madras State Herbarium (pp. 38-47, August, 1974). However after this publication several new collections have been added to Blatter Herbarium; of which three need special mention here:

1. Collections from Bombay Natural History society (Woodrow, Bhide, Patwardhan & Cooke)
2. Collections of Mr. Charles McCann, and
3. Dr. M. L. Banerji's collections from East Nepal.

All these collections as well as collections mentioned by H. Santapau contain some important type specimens. Some of these types were already located and kept separately by H. Santapau and co-workers but many have

¹ Accepted August 1975.

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been located later or have been acquired through the kind donation of the herbarium of Mr. Charles McCann, presently in New Zealand.

The following few pages give the list of some of the types separated from Blatter Herbarium and from McCann's collections. The list is made in accordance with rules of the latest code (Ed. 1972).

ACANTHACEAE

1. **Barleria gibsonioides** Blatter, in Journ. Bombay nat. Hist. Soc. 32(4): 733, 1928. Lectotype: E. Blatter — Panchgani-1 (Oct., 1927). Syntypes: E. Blatter — Panchgani-2-7 (Oct., 1927).

Blatter in the original publication mentioned specimens Nos. 1, 2, 3, 5 & 7 as types and specimens Nos. 4 & 6 as cotypes as this species. All these specimens have been collected at Panchgani during a single gathering. Specimen No. 1 is quite good and it is selected herein as the lectotype of the species and remaining specimens have been designated as syntypes.

2. **Barleria pratensis** Santapau, in Kew Bull. 1948: 487, 1949. Holotype: H. Santapau—Khandala-1228 (25.x.1942), Isotype: H. Santapau—Khandala-1228B (25.x.1942), Paratypes: H. Santapau—Khandala-7435-6 (2.x.1945).
3. **Dicliptera abuensis** Blatter, in Journ. & Proc. Asiat. Soc. Bengal (N.S.) 26(1): 347, 1930. Holotype: Hallberg—Mount Abu-22856 (Nov., 1916).

AMARANTHACEAE

4. **Dicliptera ghatica** Santapau, in Bot. Mem. Univ. Bombay 2:80, 1952. Holotype: H. Santapau—Khandala-1915 (20.iv.1943).
5. **Strobilanthes hallbergii** Blatter, in Journ. & Proc. Asiat. Soc. Bengal, (N.S.) 26(1): 345-6, 1930. Holotype: Hallberg & Blatter—Mount Abu-22675 (27.x.1916).
6. **Achyranthes coynei** Santapau, in Kew Bull. 1948: 488, 1949. Holotype: H. Santapau—Khandala-8074 (26.xi.1945), Isotypes: H. Santapau—Khandala-8069-73 (26.xi.1945), Paratypes: H. Santapau—Khandala-5945-47 (29.i.1945), Paratypes: H. Santapau—Khandala-8649 (16.ii.1936), Paratypes: H. Santapau — Khandala-27554-5 (Oct., 1918).

7. **Aerva pseudo-tomentosa** Blatter et Hallberg, in Journ. Bombay nat. Hist. Soc. 26 (3): 817, 1919. Lectotype: E. Blatter & Hallberg—Jaisalmer-5962 (Nov., 1917). (see Santapau, 1959 B).

AMARYLLIDACEAE

8. **Crinum eleonarae** Blatter et McCann, in Journ. Bombay nat. Hist. Soc. 32(4): 733-4, 1929. Lectotype: C. McCann—Mahabaleshwar-7 (June, 1927), Syntypes: C. McCann—Mahabaleshwar-8-10 (June, 1927).

In the original publication on this species four specimens (Nos. 7, 8, 9 &

10) are mentioned as types. No. 7 is selected herein as the lectotype of the species. There is one more specimen of this species in Blatter herbarium (No. 6), which bears the identification mark of this species in Blatter's handwriting. Although this specimen is not included in original publication and does not form the type material, it is the only specimen containing leaves, the rest of the specimens being portions of an inflorescence.

9. **Pancratium donaldi** Blatter, in Journ. Asiat. Soc. Bengal (N.S.) 26(1): 360-361, 1930.

Lectotype: Donald Elkin—Panchgani-758 (10.vi.1928),

Syntypes: Donald Elkin—Panchgani-759-60 (10.vi.1928).

In the original publication on this species the author mentions three specimens (nos. 758, 759 & 760). No. 758 is the only complete specimen with bulb and flowers and it is selected herein as the lectotype of the species. The other two syntypes bear only flowering pseudostems.

APOCYNACEAE

10. **Carissa congesta** var. **albida** Santapau, in Kew Bull. 1948: 490, 1949.

Holotype: H. Santapau-Khandala-8890 (11.v.1946),

Paratype: H. Santapau—Khandala-8985 (19.v.1946).

ARACEAE

11. **Arisaema longicaudata** Blatter, in Journ. & Proc. Asiat. Soc. Bengal, (N.S.) 26(1): 362-4, 1930.

Holotype: E. Blatter—Mahabaleshwar-P-10 (June, 1925),

Syntypes: E. Blatter—Mahabaleshwar-P-10a-e (June, 1925).

There were a number of specimens of this species in one single folder under P-10. One good specimen out of the whole lot has been selected as the lectotype and the remaining specimens are mounted separately under nos. P-10a-e and designated syntypes of this species.

12. **Cryptocoryne cognatoides** Blatter & McCann, in Journ. Bombay nat. Hist. Soc. 35(1): 17, 1931.

Holotype: T. R. D. Bell—N. Kanara-3091 (Oct., 1971),

Isotype: T. R. D. Bell-N. Kanara-3091a-b (Oct., 1917).

13. **Cryptocoryne tortuosa** Blatter et McCann, in Journ. Bombay nat. Hist. Soc. 35(1): 16, 1931.

Isotypes: C. McCann—Lingmala, Mahabaleshwar-3335, 3336, 3340 (24.ix.1930).

14. **Typhonium incurvatum** Blatter et McCann, in Journ. Bombay nat. Hist. Soc. 35(1): 22, 1931.

Isotypes: C. McCann—Sion hill-999, 1001 (25.viii.1929).

ASCLEPIADACEAE

15. **Ceropegia evansi** McCann, in Journ. Bombay nat. Hist. Soc. 45: 209, 1945.

Isotypes: H. Santapau—Khandala-137. 22A-C (1.viii.1941).

Paratypes: H. Santapau—Khandala-919A, 920B, 921C, 922D (13.ix.1942).

Paratypes: H. Santapau—Khandala-2261-2 (24.vii.1943).

16. **Ceropegia evansi** var. **media** Huber, in Mem. Soc. Broter 12: 67, 1957.

Holotype: N. A. Irani—Bhimashankar-1194 (19.ix.1955).

- Isotypes: N. A. Irani—Bhimashankar-1194A, 1196A-C (19.ix.1955).
17. **Ceropegia huberi** Ansari, in Bull. Bot. Surv. India 10(2): 219-221, 1968.
Isotype: M. Y. Ansari—Amba ghat-105001 (29.viii.1967).
18. **Ceropegia oculata** var. **sub-hirsuta** Huber, in Mem. Soc. Broter, 12: 65, 1957.
Holotype: K. V. Shenoy—Mumbra-4057 (12.viii.1954).
Isotypes: K. V. Shenoy—Mumbra-4054-6, 4059-60 (12.viii.1954).
19. **Ceropegia polyantha** Blatter et McCann, in Journ. Bombay nat. Hist. Soc. 24: 936, 1931.
Paratype: C. McCann—Lingmala, Mahabaleshwar-3439 (Sept., 27, 1930).
20. **Ceropegia rollae** K. Hemadri, in Bull. Bot. Surv. India, 10(2): 123-5, 1968.
Isotype: K. Hemadri—Junnar-107472H (29.ix.1965).
21. **Ceropegia sahyadrica** Ansari et Kulkarni, in Indian Forester, 97(12): 688, 1971.
Paratypes: B. V. Reddi—Ambavane-Sakharpathar-99212.
Paratypes: E. Blatter, Hall. & McCann—Khandala-27424 (July, 1919).
22. **Ceropegia santapau** Wadhwa et Ansari, in Bull. Bot. Surv. India, 10(1): 95-97, 1968.
Isotype: B. M. Wadhwa—Mahabaleshwar-109640E (19.viii.1966).
Paratype: B. M. Wadhwa & M. Y. Ansari—Mahabaleshwar-109651H (13.ix.1966).
23. **Gymnema khandalensis** Santapau, in Kew Bull. 1948: 486, 1949.
Holotype: H. Santapau—Khandala-5434 (1.xi.1944).
Isotypes: H. Santapau—Khandala-5436-7 (1.xi.1944).
Paratypes: H. Santapau—Khandala-5796, 5798-9 (20.i.1945).
In the original publication on this species the author has mentioned two holotypes (Nos. 5434 & 5797). One consisting of the flowering material and the other fruiting. The International Code of Botanical Nomenclature (Ed. 1972, p. 20) Article No. 9 gives the following rule in this regard: "The nomenclatural type (holotype, lectotype or neotype) of a species or other taxon below the rank of a species is a single specimen or other element except in the following case: for small herbaceous plants and for most non-vascular plants, the type may consist of more than one individual, which ought to be conserved permanently and assembled on the herbarium sheet or preparation.
As per direction of the code only one specimen No. 5434 is retained herein as the holotype and other designated as the isotype of the species.

BALSAMINACEAE

24. **Impatiens balsamina** var. **corymbosa** Santapau, in Kew Bull. 1948: 489, 1949.
Holotype: H. Santapau—Khandala-5459 (2.xi.1944).
25. **Impatiens kleiniformis** Sedgwick, in Rec. Bot. Surv. India, 6: 35, 1919.
Lectotype: L. J. Sedgwick—Castle Rock-2841 (Aug., 1917).
Syntypes: L. J. Sedgwick—Castle Rock-2841 A-D (Aug., 1917).
There are five herbarium specimens of this species under No. 2841. Code (Ed. 1972, Article 9) permits only one herbar-

ium specimen as the holotype. Therefore one herbarium sheet out of the five is selected herein (under No. 2841) as the lectotype and remaining four marked 2841A-D and designated as syntypes.

BEGONIACEAE

26. *Begonia prixophylla* Blatter et McCann, in Journ. Indian Bot. Soc. 10(1): 27-28, 1931.
Isotypes: C. McCann—Mahabaleshwar-2916, 2918-9, 2923 (22.viii.1930).
27. *Begonia tribenensis* Rao, in Journ. Bombay nat. Hist. Soc. 65(3): 724-5, 1969.
Holotype: C. R. Rao—Kumkum Potti-342A (6.vii.1963).
Isotype: C. R. Rao—Kumkum Potti-342 (6.vii.1963).
Paratypes: C. R. Rao—Tribeni-832, 832B (30.vii.1967).

CLEOMACEAE

28. *Cleome asperima* Blatter, in Journ. & Proc. Asiat. Soc. Bengal (N.S.) 26(1): 340, 1930.
Holotype: H. Hedberg — Dhulia-7670 Nov., 1928).
29. *Cleome hotsonii* Blatter et Hallberg, in Journ. Indian Bot. Soc. 1: 5, 1919.
Lectotype: Ispikan—90 (7.ix.1918).

In the original publication the authors have mentioned two specimens (No. 90 & 90A). Only No. 90 is available in Blatter Herbarium and is selected herein as lectotype of the species.

COMBRETACEAE

30. *Anogeissus rotundifolia* Blatter et Hallberg, in Journ. Bombay nat. Hist. Soc. 26(2): 525, 1919.

Lectotype: Blatter & Hallberg—Jodhpur-6594 (Oct., 1917). (See Santapau, 1959 B).

COMMELINACEAE

31. *Aneilema rigidum* Blatter, in Journ. Bombay nat. Hist. Soc. 33(1): 73-4, 1928.
Holotype: E. Blatter—Panchgani-P-75 (20.viii.1925).
32. *Aneilema siennea* Blatter, in Journ. Bombay nat. Hist. Soc. 33(1): 75, 1928.
Lectotype: E. Blatter—Panchgani-P-74 (Aug., 1925).
Syntypes: E. Blatter — Panchgani-P-74 A-F (Aug., 1925).

There were a number of specimens of this species in one folder kept unmounted under No. P-74. These have been mounted now and one specimen is retained under P-74 and selected herein as a lectotype and the remaining numbered P-74 A-F and designated as syntypes.

33. *Cyanotis cerifolia* Rao et Kamathy, J. Linn. Soc. London (Bot.) 59(379): 305-8, 1966.
Paratype: R. V. Kamathy — Poona-77786F (10.ix.1962).
34. *Cyanotis epiphytica* Blatter, in Journ. Bombay nat. Hist. Soc. 33(1): 76, 1928.
Paratypes: Hallberg — Girsappa-35004 (Oct., 1919).
Paratypes: Hallberg — Girsappa-35047 (Oct., 1919).
Paratypes: Sedgwick & Bell—Malemane, N. Kanara-7193 (Oct., 1919).
35. *Cyanotis sahyadrica* Blatter, in Journ. Bombay nat. Hist. Soc. 33(1): 77, 1928.
Lectotype: Frenchman—Panchgani-P-38 (19.vii.1925).

Syntype: Frenchman—Panchgani-P-38A (19.vii.1925).

There were two unmounted specimens of this species in one folder bearing No. P-38. Out of these two, only one has flowers and has been selected herein as lectotype. The other is marked as P-38A and designated as syntype.

COMPOSITAE

36. *Cyathocline purpurea* var. *alba* Santapau, in Kew Bull. 1948; 490, 1949.
Paratype: H. Santapau—Khandala-8883 (11.v.1946).

In the original publication the author has mentioned that "the holotype of the species is deposited in Blatter Herbarium and Paratype is at Kew." However the paratype is in the Blatter Herbarium and the Holotype may be at Kew.

37. *Cyathocline purpurea* var. *bicolor* Santapau, in Kew Bull. 1948; 490, 1949.
Holotype: H. Santapau—Khandala-3421 (24.xii.1943),
Isotypes: H. Santapau—Khandala-3422-3 (24.xii.1943).

38. *Glossocardia setosa* Blatter et Hallberg, in Journ. Bombay nat. Hist. Soc. 26(2): 536, 1919.
Lectotype: Blatter & Hallberg—Jodhpur-10083 (Oct., 1917) (See Santapau, 1959 B).

39. *Pulicaria rajputanae* Blatter et Hallberg, in Journ. Bombay nat. Hist. Soc. 26(2): 535, 1919.
Lectotype: Blatter & Hallberg—Jodhpur-10039 (Oct., 1917) (see, Santapau, 1959 B).

CONVOLVULACEAE

40. *Argyreia boseana* Santapau et Patel, in Trans. Bose Res. Inst. Calcutta 22: 35-6, 1958.

Holotype: Z. J. Kapadia—Mahabaleshwar-2083 (15.vii.1956).

Isotype: Z. J. Kapadia—Mahabaleshwar-2082 (15.vii.1956).

Paratypes: H. Santapau—Mahabaleshwar-13139 (17.viii.1951).

Paratypes: H. Santapau—Mahabaleshwar-13220 (19.viii.1951).

Paratypes: V. M. Patel—Mahabaleshwar-1144 (22.xii.1954).

41. *Convolvulus densiflorus* Blatter et Hallberg, in Journ. Bombay nat. Hist. Soc. 26(2): 545, 1919.

Lectotype: Blatter & Hallberg—Jaisalmer-3515 (Nov., 1917) (see Santapau, 1959 B).

42. *Ipomoea salsettensis* Santapau et Patel, in Trans. Bose Res. Inst. Calcutta, 22: 34-5, 1958.

Holotype: V. M. Patel—Borivali-1509 (25.ix.1955).

Isotype: V. M. Patel—Borivali-1510 (25.ix.1955).

Paratypes: V. M. Patel—Mumbra-823 (7.x.1954).

Paratypes: V. M. Patel—Bhandup-1524 (8.x.1955).

Paratypes: V. M. Patel—Borivali-921, 923 (30.x.1954).

43. *Operculina tansaensis* Santapau et Patel, in Trans. Bose Res. Inst. Calcutta 22: 33-4, 1958.

Holotype: V. M. Patel—Tansa Lake-1619 (18.xii.1955).

Isotypes: V. M. Patel—Tansa Lake-1613-5, 1618, 1620 (18.xii.1955).

CRUCIFERAE

44. **Goldbachia hispida** Blatter et Hallberg, in Journ. Indian Bot. Soc. 1: 3, 1919.
Holotype: J. E. B. Houston—Kalarbahar-247A. (27.iv.1918).

CYPERACEAE

45. **Mariscus blatteri** McCann, in Journ. Bombay nat. Hist. Soc. 37(3): 532-3, 1934.
Holotype: Nana (Sedgwick's collector)—Mahabaleshwar-7627 (Oct., 1920).
Isotype: Nana—Mahabaleshwar-7627A (Oct., 1920).
Paratype: Nana—Mahabaleshwar-7646 (Oct., 1920).
46. **Pycrius malabaricus** C. B. Clarke, in Journ. Linn. Soc. London, 34: 12, 1898.
Isotype: Woodrow — Lonavala-28B (16.ix.1894).
Paratype: Woodrow—Lanoli-s.n. (Sept., 1895).

DENSTADTIACEAE

47. **Microlepia hallbergii** d'Almeida, Journ. Indian Bot. Soc. 5(1): 19, 1926.
Lectotype: Blatter, Hallberg & d'Almeida-Madura Dt.-B-11 (248a) (May, 1917).
Syntype: Blatter, Hall. & d'Almeida-B-10 (248b) (May, 1917).

In the original publication both specimens are mentioned as types. Therefore No. B-11 (248a) is selected herein as the lectotype and the other designated as the syntype of the species.

ERIOCAULACEAE

48. **Eriocaulon indicum** Moldenke, in Phytologia 3: 162, 1949.

Isotype: H. Santapau—Khandala-2924 (4.x.1943).

Rev. Fr. H. Santapau in Flora of Khandala (1960) mentions "The type of this very distinct species was collected by H. Santapau (No. 2924) at Khandala, on the Kune plateau, Bombay, India, on October 4, 1943, and is deposited in the Britton Herbarium at the New York Botanical Garden". But actually the specimen with No. 2924 is available in Blatter Herbarium. It is presumed here that our No. 2924 here is a part of the material sent to Britton Herbarium, New York and the specimen is designated as the Isotype of the species.

49. **Eriocaulon humile** Moldenke, in Phytologia 3: 162, 1949.

Isotype: Blatter, Hall. & McCann—Khandala-28009 bis (Oct., 1918).

According to Rev. Fr. H. Santapau the Holotype of this species with the above number is deposited in Britton Herbarium. Therefore it is presumed here that our specimen is duplicate of the holotype and designated herein as the Isotype of the species.

50. **Eriocaulon lanceolatum** var. **pilosum** Moldenke, in Phytologia 3: 164, 1949.

Holotype: H. Santapau—Khandala-218.2 (5.ix.1941).

51. **Eriocaulon margaretae** Fyson, in Journ. Indian Bot. 2 & 3: 52, 1923.

Lectotype: L. J. Sedgwick—Bidi, Belgaum-2979 (Sept., 1917).

In the original publication Fyson mentioned two specimens for this species (Fyson-3839 & L. J. Sedgwick-2979). L. J. Sedgwick-2979 is available in Blatter Herbarium and is selected herein as

a lectotype of the species. The specimen has been identified by Fyson himself. Fyson's specimen No. 3839 may be available in Madras Herbarium and it should be recognised as the syntype.

52. **Eriocaulon santapau** Moldenke, in *Phytologia* 3: 166, 1949.
Isotype: H. Santapau—Khandala-1290(2) (7.xii.1942).
53. **Eriocaulon vanheurckii** forma **minima** Moldenke, in *Phytologia* 5(3): 84, 1955.
Holotype: H. Santapau—Khandala-15849 (22.viii.1953).

EUPHORBIACEAE

54. **Euphorbia jodhpurensis** Blatter et Hallberg, in *Journ. Bombay nat. Hist. Soc.* 26(3): 971, 1919.
Holotype: Blatter & Hallberg—Jodhpur-9228 (Oct., 1917).
55. **Euphorbia khandalensis** Blatter et Hallberg, in *Journ. Indian Bot.* 2: 48-9, 1921.
Holotype: C. McCann—Khandala-s.n. (Apr., 1918).
56. **Euphorbia panchganensis** Blatter et McCann, *Journ. & Proc. Asiat. Soc. Bengal (New Series)* 26(1): 353, 1930.
Holotype: Blatter et McCann—Panchgani-102 (16.iv.1926).
Isotypes: Blatter et McCann—Panchgani-103-4 (16.iv.1926).
57. **Euphorbia pauciradiata** Blatter, in *Journ. Bombay nat. Hist. Soc.* 36(2): 483-4, 1933.
Holotype: J. Fernandes—Miranshah-981 (13.iv.1927).
Isotype: J. Fernandes—Miranshah-981a (13.iv.1927).

58. **Phyllanthus talboti** Sedgwick, in *Journ. Indian Bot.* 2: 124, 1921.
Lectotype: Sedgwick & Bell—North Kanara-7073 (Nov., 1919).
Syntype: Sedgwick & Bell—North Kanara-7073A (Nov., 1919).
Syntype: L. J. Sedgwick—N. Kanara-4869 (Nov., 1918).

In original publication Sedgwick has mentioned Sedgwick & Bell No. 7073 as one of the typical specimen of this species. However in Blatter Herbarium there are two sheets under this number. One of them is herein selected as the lectotype of the species and other sheet is marked 7073A and designated as syntype of this species.

AIZOACEAE

59. **Trianthema pentandra** var. **rubra** Blatter et Hallberg, in *Journ. Bombay nat. Hist. Soc.* 26(2) 530, 1919.
Lectotype: Blatter & Hallberg—Jaisalmer-6772 (Oct., 1917) (See Santapau, 1959 A).

GENTIANACEAE

60. **Canscora khandalensis** Santapau, in *Kew Bull.* 1948: 485, 1949.
Paratypes: H. Santapau—Khandala-2663 (11.ix.1943), 2756 (30.ix.1943), 2779 (1.x.1943) & 5073 (3.x.1944).
61. **Gentiana lowndesii** Blatter, in *Journ. Bombay nat. Hist. Soc.* 35(4): 841, 1932.
Holotype: D. G. Lowndes—Waziristan-2430 (Oct., 1931).

GERANIACEAE

62. **Erodium adenophorum** Blatter, in *Journ. Bombay nat. Hist. Soc.* 36(2): 477-8, 1933.

- Holotype: E. Blatter & J. Fernandes—Waziristan-368 (26.iii.1930).
63. **Erodium heterocephalum** Blatter, in Journ. Bombay nat. Hist. Soc. 36(2): 478, 1933.
Holotype: E. Blatter & J. Fernandes—Waziristan-201 (23.iii.1930).
64. **Erodium nanum** Blatter, in Journ. Bombay nat. Hist. Soc. 36(2): 477, 1933.
Holotype: E. Blatter & J. Fernandes—Waziristan-613. (13.iii.1930).

OXALIDACEAE

65. **Oxalis corniculata** var. **hispida** Blatter, in Journ. Bombay nat. Hist. Soc. 34(4): 898, 1931.
Lectotype: H. McCann—Panchgani-4370 (30.viii.1930).
Syntype: H. McCann—Panchgani-4371 (30.viii.1930).

In the original publication the author mentions the type, as collected by J. Fernandes, from Panchgani-Western Ghats. In Blatter Herbarium there are two specimens identified by Blatter himself which are from Panchgani collected on 30th August, 1930. These sheets are afterwards numbered in ink as H. McCann-4370 and H. McCann-4371. These are probably the specimens collected by J. Fernandes, but at present there is no evidence to prove it. Since these specimens from Panchgani have been annotated by Blatter himself they have been selected herein as lectotype and syntype of this species, respectively.

66. **Oxalis foliosa** Blatter, in Journ. Indian Bot. Soc. 9(4): 203, 1930.
Holotype: J. Fernandez—Saraghora-173 (20.v.1927),

- Isotypes: J. Fernandez—Saraghora-170, 144 (20.v.1927).
Paratypes: J. Fernandez—Waziristan-2717 (29.iv.1927),
Paratypes: J. Fernandez—Razamak-1636 (8.v.1927).
Paratypes: J. Fernandez—Rajimi-2943, 2915, 2940 & 4455 (19.iv.1927), 2599 (25.iv.1927).

GRAMINAE

67. **Andropogon concanensis** Hook, f., in Flora of Brit. India, 7: 174, 1897.
Isotype: L. J. Sedgwick—Mahabaleshwar-4652 (Nov., 1918).
68. **Andropogon paranjpeanum** Bhide, in Journ. & Proc. Asiat. Soc. Bengal (New Series) 7: 514, t. 5, 1911.
Syntypes: R. K. Bhide—Castle Rock-9404(3) (21.x.1909),
Syntypes: R. K. Bhide—Castle Rock-9675 (Oct., 1909).
69. **Andropogon woodrowii** Hook. f., Flora British India 7: 173, 1896.
Isotype: Woodrow—Maval-27 (Dec., 1894).
Hooker mentions this specimen as the type of this species. However Dr. N. L. Bor (1960) states that the holotype of this species is at Kew. The specimen in Blatter Herbarium is presumably duplicate of the holotype and is designated herein as the Isotype of the species.
70. **Arthraxon santapau** Bor, in Kew Bull. 1951: 446, 1952.
Isotype: H. Santapau—Purandhar-11450 bis (10.x.1950).
71. **Arthraxon satarensis** Almeida, in Journ. Bombay nat. Hist. Soc. 66(3): 515-7, 1970.

- Holotype———, Satara-8, Keshya-turda (no date).
72. **Bhidea burnsiana** Bor, in Kew Bull. 1948: 445, 1949.
Isotype: Hallberg & McCann—Mirjan, North Kanara-s.n. (Oct., 1919).
73. **Chloris quinquesetica** Bhide, in Journ. & Proc. Asiat. Soc. Bengal (New Series) 8: 311, 1912.
Lectotype: R. K. Bhide—Papadi, Bassein-A (30.viii.1911),
Syntype: R. K. Bhide—Papadi, Bassein-B (30.viii.1911).
These two specimens were collected by R. K. Bhide from Papadi, Bassein and identified in his own handwriting. These sheets do not have any numbers and are now marked with A & B and specimen A is selected herein as the lectotype and B designated as syntype.
74. **Coelachne minuta** Bor, in Journ. Bombay nat. Hist. Soc. 58: 317-8, 1961.
Isotype: H. Santapau—Mahabaleshwar-22731 (14.ix.1958).
75. **Danthonia gammiei** Bhide, in Journ. & Proc. Asiat. Soc. Bengal (New Series) 7: 513, t. 6, 1912.
Isotype: G. A. Gammie—Castle Rock-A-48 (Oct., 1902).
In the original publication the author has not mentioned the number of the type sheet. Dr. N. L. Bor (1960) mentions that the type of this species is at Kew (A-48). The label of the herbarium sheet in Blatter Herbarium records "Part of the type specimen". Therefore it is called herein as Isotype of the species.
76. **Dichanthium mccannii** Blatter, in Journ. Bombay nat. Hist. Soc. 32(2): 357-8, 1927.
- Holotype: C. McCann—Panchgani-s.n. (Oct., 1925).
77. **Dichanthium panchganensis** Blatter et McCann, in Journ. Bombay nat. Hist. Soc. 32(2): 357-8, 1927.
Holotype: C. McCann—Panchgani-s.n. (Nov., 1925).
78. **Dimeria blatteri** Bor, in Kew Bull. 1949: 70, 1949.
Holotype: Blatter, Hallberg & McCann-Khandala-9918(17) (Oct., 1918).
79. **Dimeria santapau** Almeida, in Journ. Bombay nat. Hist. Soc. 66(3): 510-13, 1970.
Holotype: Sedgwick & Bell: Mirjan flats, N. Kanara-6875 (Oct., 1919).
Isotype: Sedgwick & Bell: 6876 (Oct., 1919).
80. **Dimeria woodrowii** Stapf, in Hook. Ic. Pl. sub. tab. 2312, 1894.
Isotype: W. A. Talbot—Marmagoa-2557 (14.x.1891).
81. **Enteropogon badamicum** Bhide, in Journ. & Proc. Asiat. Soc. Bengal (New Series) 7: 517, 1911.
Isotype: R. K. Bhide — Badami-s.n. (8.ix.1911).
82. **Hubbardia heptaneuron** Bor, in Kew Bull. 1950: 385, 1951.
Isotype: L. J. Sedgwick—N. Kanara-7089 (Oct., 1919).
83. **Isachne borii** Hemadri, in Indian Forester 97(4): 223-5, 1971.
Paratype: G. M. Woodrow—Jeur, Sholapur-s.n. (Dec., 1897).
84. **Ischaemum bolei** Almeida, in Indian Forester 98(4): 236-8, 1972.

- Holotype: M. R. Almeida—Savantwadi-1535 (18.xi.1970).
85. **Ischaemum bombaiensis** Bor, in Journ. Bombay nat. Hist. Soc. 49(2): 165-166, 1950.
Isotype: C. McCann—Khandala-9904 (Oct., 1919).
86. **Ischaemum borii** Almeida, in Journ. Bombay nat. Hist. Soc. 66(3): 513-5, 1970.
Isotype: M. R. Almeida—Amboli-895A (24.xii.1968).
Paratype: C. B. Patawardhan—Ambe-wadi-1115 (12.x.1907).
87. **Ischaemum diplopogon** Hook. f., in Hooker's flora of Brit. India, 7: 129, 1897.
Isotype: —————, Mahabaleshwar-No. 4, (Dec., 1896).
88. **Ischaemum raizadae** Hemadri et Billore, in Indian Forester, 96(4): 318, 1970.
Paratype: G. B. Patawardhan—Amber-wadi-1115 (12.x.1907).
89. **Ischaemum santapau** Bor, in Journ. Bombay nat. Hist. Soc. 49(2): 167, 1950.
Holotype: H. Santapau—Karjat-9665 (11.ii.1948).
Paratype: H. Santapau—Karjat-10535-7, 10539-42, 10544-5, 10547 (10.xii.1949).
90. **Manisuris acuminata** var. **woodrowii** Bor, in Grasses of Burma, Ceylon, India and Pakistan, 191, 1960.
Isotype: W. A. Talbot—
91. **Manisuris forficulata** Fisher, in Kew Bull. 1933: 355, 1933.
Lectotype: J. C. Lisboa (?)—Mahabaleshwar.
This specimen was received from the
- collections donated by Bombay Natural History Society. Dr. S. K. Jain had separated this specimen as type material after some discussions with Rev. Fr. Santapau.
92. **Manisuris mysorensis** Jain et Hemadri, in Bull. Bot. Surv. India, 10 (3&4): 280-282, 1968.
Isotype: G. A. Gammie—Castle Rock-15643D (25.x.1902).
In the original publication the authors have marked Gammie's three herbarium specimens 15643A, 15643B and 15643C. Therefore the duplicate in Blatter Herbarium is marked 15643D.
93. **Manisuris santapau** Jain et Deshpande, in Bull. Bot. Surv. India, 10 (3 & 4): 277-9, 1968.
Isotype: C. Saldanha—Ratnagiri-7132A (15.ix.1961).
94. **Ochlandra talboti** Brandis, Indian Trees, 784, 1911.
Lectotype: W. A. Talbot—Girsoppa falls, N. Kanara-3628 (7.i.1896).
Brandis in his original work does not indicate any type specimen. But he gives credit of separating this species as a distinct one to Talbot. Therefore Talbot's specimen No. 3628 is selected herein as the lectotype of this species.
95. **Ophiurus bombaiensis** Bor, in Kew Bull. 1951: 167, 1951.
Paratype: L. J. Sedgwick—Siddhapur-7018 (Oct., 1919).
96. **Panicum obscurans** Woodrow, in Journ. Bombay nat. Hist. Soc. 13: 434, 1901.
Isotype: G. M. Woodrow—Jeur, Sholapur-s.n. (Dec. 1897).
97. **Paspalum compactum** var. **fimbriatum** Bor, in Grasses of Burma, Ceylon, India

and Pakistan, 1960.

Isotypes: P. V. Bole—Mahabaleshwar-304-305 (19.x.1951).

98. **Pogonachne racemosa** Bor, in Kew Bull. 1949: 176, 1949.

Paratypes: C. McCann—Khandala-9924-6 (Oct., 1918).

99. **Rotthoellia talbotii** Hk. f., Flora Brit. India 7: 155, 1896.

Isotype: W. A. Talbot—Marmagoa-2572 (15.x.1892).

100. **Sporobolus indicus** Stapf ex Cooke, Flora Bombay Pres. 2: 1018, 1908.

Isotype: Woodrow—Karachi-s.n. (Aug., 1883).

LABIATAE

102. **Leucus angustissima** Sedgwick, in Journ. Indian Bot. 2: 123, 1921.

Holotype: Sedgwick & Bell—Jog, N. Kanara-7234 (Oct., 1919).

Paratypes: Sedgwick & Bell—Siddhapur, N. K., 7225 (Oct., 1919).

Paratypes: Hall. & McCann—Jog, N.K., 34988, 35101, 35103 (Oct., 1919).

LENTIBULARIACEAE

103. **Utricularia equiseticaulis** Blatter et McCann, in Journ. Indian Bot. Soc. 10: 122, 1931.

Holotype: C. McCann & J. Fernandez—Panchgani-3508 (3.x.1930).

Paratypes: C. McCann & J. Fernandez—Bhilar-7860-7861 (Dec., 1927).

104. **Utricularia ogmosperma** Blatter et McCann, in Journ. Indian Bot. Soc. 10: 123, 1931.

Holotype: E. Blatter—Panchgani-P-70 (Beg. of Aug., 1925).

Isotypes: E. Blatter—Panchgani-P-70 A-C (Beg. of Aug., 1925).

In the original publication No. P-7 is mentioned as a type of this species. In Blatter Herbarium there are four herbarium sheets (P-70, P-70A, P-70B & P-70C), on which Blatter has mentioned "Types". P-7 is probably a typographical error for P-70.

105. **Utricularia reticulata** var. **parviflora** Santapau, in Kew Bull. 1948: 491, 1949.

Holotype: H. Santapau—Khandala-5422 (31.x.1944).

LILIACEAE

106. **Asparagus deltae** Blatter, in Journ. Indian Bot. Soc. 6: 30-31, 1929.

Holotype: E. Blatter—Indus delta-715 (Oct., 1922),

Isotypes: E. Blatter—Indus delta-716-720 (Oct., 1922).

107. **Asparagus gharoensis** Blatter, in Journ. Indian Bot. Soc. 6: 30, 1929.

Holotype: E. Blatter—Gharo, Indus delta-699 (4.x.1922),

Isotypes: E. Blatter—Gharo, Indus delta-700-8, 714 (4.x.1922).

108. **Chlorophytum borivlianum** Santapau et Fernandes, in Journ. Bombay nat. Hist. Soc. 52(4): 898-900, 1955.

Holotype: R. R. Fernandes—Borivali-1810 (14.vi.1954).

Isotypes: R. R. Fernandes—Borivali-1804, 1807 (14.vi.1954),

Paratype: R. R. Fernandes—Borivali-1822 (22.vi.1954).

109. **Chlorophytum glaucoides** Blatter, in Journ. & Proc. Asiat. Soc. Bengal (New Series) 26(1): 361-2, 1930.

Lectotype: E. Blatter—Panchgani-P-73
(Aug., 1925).

Syntypes: E. Blatter—Panchgani-P-73 A-E
(Aug., 1925).

There were a number of unmounted specimens of this species in newspapers with a common No. P-73. One of them has been selected and retained under P-73 and selected herewith as a lectotype

and remaining marked with A-E and designated as syntypes.

110. **Dipcadi ursulae** Blatter, in Journ. Bombay nat. Hist. Soc. 32(4): 735, 1928.

Holotype: E. Blatter—Panchgani-P-74
(Aug., 1925).

(to be continued)